

Fluid Management Apparatus with Format Conversion

Abstract

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A fluid management apparatus includes a substrate—(20)
 having a first surface—(21) and a second surface opposite
to the first surface—(23). A plurality of fluid inlets
 10 ~~(28)~~, which are preferably media reservoirs, are formed in
 a first pattern in the first surface—(21) of the substrate
 (20). A plurality of fluid outlets, which are preferably
 nozzles, are arranged in a second pattern, which is
 different from the first pattern, in the second surface
 15 ~~(23)~~ of the substrate—(20). A plurality of fluid ducts—(26)
 formed in the substrate—(20) for connecting respective
 fluid inlets—(28) with respective fluid outlets—(14) are
 provided so that a format conversation from the fluid
 inlets to the fluid outlets is effected. The fluid outlets
 20 have opening cross-sections smaller than that of the fluid
inlets. Furthermore, the fluid inlets may be arranged in
the raster scheme of microtiter plates.